


# Working with Test Environments

 "Test Environment" is a concept introduced in Xray v2.  
Here is a [short video](#) which explains Test Environments and how you can use them.

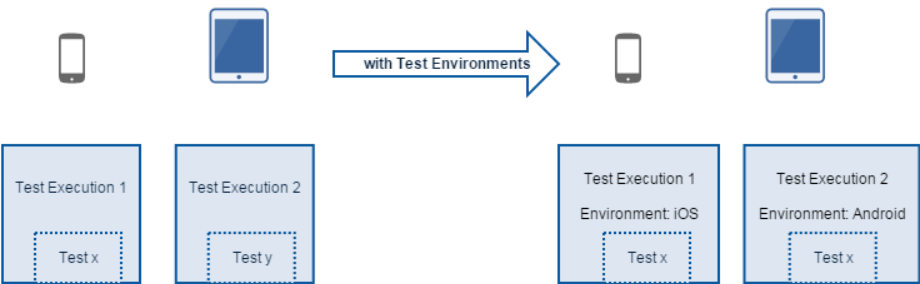
## Overview

The status of a Test (i.e., TestRunStatus) is generally calculated by looking at the Test's last execution (more detail [here](#)). However, this does not work well if you execute the same Test in two different test environments (e.g., devices) and you want the two results to be consolidated.


Within a Test Execution, you may specify the **Test Environment(s)** where the tests will be executed in the respective attribute. A Test Environment is similar to a label, but Xray has special logic to deal with it.

If you use Test Environments, you may reuse the same Test for multiple test environments and create Test Executions for each one. If you don't use Test Environments and you want to track tests for multiple environments (e.g., devices), then the only way to do it is to create multiple tests, one per each test environment.

Let's say that you have executions for two Test Environments: "Android" and "iOS". The test is considered as PASS only if the **latest** executions for Android and iOS are **both** PASS; otherwise, it will be FAIL.



Note: If you don't use Test Environments, then the TestRunStatus is calculated as usual.

 If you start using Test Environments in your Test Executions, then it's not only your test status calculation that will change. All custom fields that depend on it (e.g., Requirement status, Test Sets status) will change. Consequently, the requirement coverage calculation and all associated charts/gadgets are also affected.

## How it works

Let's say we have a Test being executed two times. We will start by creating Test Executions TE1 and TE2.

TE2 will be executed after TE1, so TE1 is considered older.

Below are example scenarios and shows how the TestRunStatus is calculated in each.

If you have a mix of Test Executions (i.e., with and without Test Environment as in scenario D), it will be treated the same way as scenarios A, B and C.

Scenario	Test Environment(s) of TE 1	Test Environment(s) of TE 2	Test run status in TE1	Test run status in TE2	Calculated value of "TestRunStatus" custom field
A	Android	iOS	PASS	PASS	PASS
B	iOS	iOS	PASS	FAIL	FAIL
C	iOS	iOS	FAIL	PASS	PASS

D	iOS	-	FAIL	PASS	FAIL
E	-	-	PASS	FAIL	FAIL
F	-	-	FAIL	PASS	PASS

## Example

When creating a Test Execution, you must set the Test Environment in which the execution will be executed. You can use this field as a simple label: just add the environment or reuse a previously created one.

Create Issue

Configure

Project

Test New Xray Mobile Game...

Issue Type

Test Execution

General

Test Execution Details

Begin Date

The planned start date

End Date

The planned end date

Revision

The system revision for the test execution

Test Environments

Android

Begin typing to find and create labels or press down to select a suggested label.

*Test Execution for "Android" Test Environment*

Edit Issue : TNXMG-2

Configure Fields

General

Test Execution Details

Begin Date

The planned start date

End Date

The planned end date

Revision

The system revision for the test execution

Test Environments

iOS

*Test Execution for "iOS" Test Environment*

The Test Environments column is shown in your Test Runs table so you can distinguish each execution of the Test between the different environments.

## Details

Type:  Test Status: **OPEN** (View Workflow)

Priority:  Medium Resolution: Unresolved

Labels: None

## > Test Details

## > Pre-Condition

## > Test Sets

## Test Runs

Execute In ▾

## FILTERS

Project	Version	Status	Start	End
All Projects ▾	▾	All Statuses ▾	DD-MM-YYYY HH:MM	DD-MM-YYYY HH:MM
X Clear				

Show 10  entries

Columns ▾

Key	Executed By	Started	Finished	Defects	Test Environments	Status
TNXMG-1	admin	Today 7:07 PM	Today 7:07 PM		Android	FAIL
TNXMG-2	admin	Today 7:07 PM	Today 7:13 PM		IOS	PASS

Showing 1 to 2 of 2 entries

First Previous 1 Next Last

## Issue Links

tests  TNXMG-3 As a user I can see the main menu  OPEN

The same Test has been executed in both Test Environments (a Test Execution per Test Environment).

The Requirement Status will show **NOK** because the Test has failed for one of the environments.



Test New Xray Mobile Game / TNXMG-3

## As a user I can see the main menu

[Edit](#) [Comment](#) [Assign](#) [More](#) [Start Progress](#) [Resolve Issue](#) [Close Issue](#) [Admin](#)

### Details

Type: Story Status: OPEN [\(View Workflow\)](#)  
Priority: Medium Resolution: Unresolved  
Labels: None  
Requirement Status: NOK

### Description

[Click to add description](#)

### Attachments

[Drop files to attach, or browse.](#)

### Issue Links

tested by TNXMG-4 Test - As a user I can see the main menu OPEN

## Tips

- Use Test Environments only if want to run the **same** Test on different environments.
- If you do use it, then assign just one Test Environment per Test Execution.
- You may filter using Test Environments in your Test Executions panel to see how the executions are doing, per environment.